

1/2/1

DIALOG(R)File 351:Derwent WPI
(c) 2003 Thomson Derwent. All rts. reserv.

010013278 **Image available**
WPI Acc No: 1994-280989/*199435*
Related WPI Acc No: 1999-470951; 1999-480817
XRPX Acc No: N94-221498

Ultrasonic wave medical treatment appts for targets e.g tumours and
calculi with MRI guidance - uses ultrasonic wave applicator for
generating waves focussed onto treatment target incorporated within table
for carrying patient into MRI gantry

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: AIDA S; FUJIMOTO K; ISHIBASHI Y; ISHIHARA Y; OKAMOTO K; SHIBATA M
; SUZUKI T

Number of Countries: 004 Number of Patents: 005

Basic Patent:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 614651	A1	19940914	EP 94103587	A	19940309	199435 B

Priority Applications (No Type Date): JP 9349551 A 19930310

Cited Patents: EP 558029; US 5247935; WO 8907907; WO 9111958

Designated States (Regional): DE; FR; GB

Abstract (Basic): EP 614651 A

The medical treatment appts includes an ultrasonic wave applicator
(1) integrally incorporated within a treatment table (22) for carrying
the patient into an MRI gantry (25) for taking the MR images. The
surface coil for taking the MR images can be provided on a surface film
of a water bag (5) in the ultrasonic wave applicator (1) or on a body
cavity probe on which the ultrasonic transducer (2) is located.

The mixing rate of the coupling fluid can be adjusted and the
impedance matching between the ultrasonic transducer (2) and the
driving circuit (12) can be maintained by minimising the reflected
electric power from the transducer.

USE/ADVANTAGE - Treating targets e.g tumours inside body under
guidance of magnetic resonance imaging. Eliminates need for
re-positioning of ultrasonic wave applicator with respect to patient.
High resolution.